10/087,275 August 25, 2003 June 11, 2003

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

(Currently Amended) An antenna duplexer comprising:

an input terminal;

a transmission filter including a surface acoustic wave (SAW) filter having an input port connected to said input terminal;

a phase shifter having an input port connected to an output port of said transmission filter;

a reception filter having an input port connected to an output port of said phase shifter;

an output terminal connected to the output port of said reception filter; and

an antenna terminal connected between said transmission filter and said phase shifter,

wherein said transmission filter has a power durability at said <u>output port</u> thereofinput terminal, the power durability being equal to or larger than a power durability at said <u>input port thereof</u> antenna terminal.

- 2. (Original) The antenna duplexer of claim 1, wherein said SAW filter has a circuit being identical as seen both from the input port thereof and from the output port thereof.
- (Original) The antenna duplexer of claim 1,

wherein said SAW filter includes:

a substrate;

a SAW resonator disposed on said substrate; and

10/087,275 August 25, 2003 June 11, 2003

a conductor pattern disposed on said the substrate, said conductor pattern being connected to said SAW resonator, and

wherein a layout of said SAW resonator and conductor pattern is symmetrical.

4. (Currently Amended) An-The antenna duplexer of claim 1,

wherein said transmission filter includes a first SAW filter having a first series arm SAW resonator disposed at an outermost arm towards said antenna terminal, and

wherein said first series arm SAW resonator includes a plurality of second series arm SAW resonators connected in series with each other.

5. (Original) The antenna duplexer of claim 4,

wherein the first SAW filter further includes a third series arm SAW resonator, and

wherein a series arm SAW resonator having a smallest capacitance of said second series arm SAW resonators has a capacity equal to or larger than a capacitance of said third series arm SAW resonator.

6. (Original) The antenna duplexer of claim 4,

wherein said first SAW filter further includes a first parallel arm SAW resonator, and

wherein said first parallel arm SAW resonator includes a plurality of second parallel arm SAW resonators connected in series with each other.

(Original) The antenna duplexer of claim 6,

wherein said first SAW filter further includes a third parallel arm SAW resonator, and

wherein said first parallel arm SAW resonator is connected closer to said antenna terminal than said third parallel arm SAW resonator.

10/087,275 August 25, 2003 June 11, 2003

- 8. (Currently Amended) The antenna duplexer of claim 7, wherein a SAW resonator having a smallest capacitance of said second parallel arm SAW resonators has a larger capacitance than said third parallel arm SAW resonator.
- 9. (Currently Amended) The antenna duplexer of claim 4, wherein said reception filter includes a second SAW filter including a <u>fourth_third_series</u> arm SAW resonator disposed at an outermost arm towards said input terminal.
- 10. (Currently Amended) The antenna duplexer of claim 9, wherein said fourth third series arm SAW resonator includes a plurality of fifth fourth series arm SAW resonators connected in series with each other.
- 11. (Currently Amended) The antenna duplexer of claim 10,

wherein said second SAW filter further includes a $\frac{\text{sixth-} \text{fifth}}{\text{series}}$ series arm SAW resonator, and

wherein a SAW resonator having a smallest capacitance of said <u>fifth_fourth</u> series arm SAW resonators has a larger capacitance than said <u>sixth_fifth_series</u> arm SAW resonator.

- 12. (Currently Amended) The antenna duplexer of claim 9, wherein said second SAW filter further includes a <u>fourth-first</u> parallel arm SAW resonator including a plurality of <u>fifth-second</u> parallel arm SAW resonators connected in series with each other.
- 13. (Currently Amended) The antenna duplexer of claim 12,

wherein said second SAW filter further includes a sixth_third_parallel arm SAW resonator, and

wherein said <u>fourth_first_parallel</u> arm SAW resonator is disposed closer to said antenna terminal than said <u>sixth_third_parallel</u> arm SAW resonator.

14. (New) An antenna duplexer comprising:

an input terminal;

10/087,275 August 25, 2003 June 11, 2003

a transmission filter including a surface acoustic wave (SAW) filter having an input port connected to said input terminal;

a phase shifter having an input port connected to an output port of said transmission filter;

a reception filter having an input port connected to an output port of said phase shifter;

an output terminal connected to the output port of said reception filter; and

an antenna terminal connected between said transmission filter and said phase shifter,

wherein said transmission filter includes a first SAW filter having a first series arm SAW resonator disposed at an outermost arm towards said antenna terminal, and

wherein said first series arm SAW resonator includes a plurality of second series arm SAW resonators connected in series with each other.

- 15. (New) The antenna duplexer of claim 14, wherein said SAW filter has a circuit being identical as seen both from the input port thereof and from the output port thereof.
- 16. (New) The antenna duplexer of claim 14,

wherein said SAW filter includes:

- a substrate;
- a SAW resonator disposed on said substrate; and
- a conductor pattern disposed on said the substrate, said conductor pattern being connected to said SAW resonator, and

wherein a layout of said SAW resonator and conductor pattern is symmetrical.

17. (New) The antenna duplexer of claim 14,

10/087,275 August 25, 2003 June 11, 2003

wherein the first SAW filter includes a third series arm SAW resonator; and

wherein a series arm SAW resonator having a smallest capacitance of said second series arm SAW resonators has a capacity equal to or larger than a capacitance of said third series arm SAW resonator.

18. (New) The antenna duplexer of claim 14,

wherein said first SAW filter further includes a first parallel arm SAW resonator, and

wherein said first parallel arm SAW resonator includes a plurality of second parallel arm SAW resonators connected in series with each other.

19. (New) The antenna duplexer of claim 18,

wherein said first SAW filter further includes a third parallel arm SAW resonator, and

wherein said first parallel arm SAW resonator is connected closer to said antenna terminal than said third parallel arm SAW resonator.

- 20. (New) The antenna duplexer of claim 19, wherein a SAW resonator having a smallest capacitance of said second parallel arm SAW resonators has a larger capacitance than said third parallel arm SAW resonator.
- 21. (New) The antenna duplexer of claim 14, wherein said reception filter includes a second SAW filter including a third series arm SAW resonator disposed at an outermost arm towards said input terminal.
- 22. (New) The antenna duplexer of claim 21, wherein said third series arm SAW resonator includes a plurality of fourth series arm SAW resonators connected in series with each other.
- 23. (New) The antenna duplexer of claim 22,

wherein said second SAW filter further includes a fifth series arm SAW resonator; and

MAT-8235US

Application No.:
Amendment dated:
Reply to Office Action of:

10/087,275 August 25, 2003 June 11, 2003

wherein a SAW resonator having a smallest capacitance of said fourth series arm SAW resonators has a larger capacitance than said fifth series arm SAW resonator.

- 24. (New) The antenna duplexer of claim 21, wherein said second SAW filter further includes a first parallel arm SAW resonator including a plurality of second parallel arm SAW resonators connected in series with each other.
- 25. (New) The antenna duplexer of claim 24,

wherein said second SAW filter further includes a third parallel arm SAW resonator, and $\,$

wherein said first parallel arm SAW resonator is disposed closer to said antenna terminal than said third parallel arm SAW resonator.

26. (New) The antenna duplexer of claim 14, wherein said transmission filter has a power durability at said output port thereof, the power durability being equal to or larger than a power durability at said input port thereof.